

## **ABSTRACT OF THE DISCLOSURE**

A Hg-free button alkaline battery cell comprising: anode shell, cathode cap, anode mixture and cathode mixture. Said cathode cap has outward flange. Separator lies between the anode mixture and the cathode mixture, and gasket with bottom and outer wall places on the separator. The open-end portion of said anode and the upper end portion of the outer wall of the gasket are bent to the cathode cap, the upper end portion of the outer wall of the gasket fastened on the flange of the cathode cap and leaning against the outer surface of the cathode cap; sealant layer is filled in the interspace between the flange of the cathode cap and the bottom and outer wall of the gasket. The cell of the present invention is sealed by the sealant layer, which can prevent electrolyte from leakage and reduce the difficulty of the process.